

Serial No. 10/081,922
Fax: (571) 273-8300
Atty Docket No. RGT 9771

AMENDMENTS TO THE CLAIMS

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Claims 1-22 (Cancelled)

23. (Amended) A method of transfecting antigen presenting cells, the steps comprising selecting a gene delivery complex that ~~targets~~ transfects antigen presenting cells, comprising DNA and ~~one or more compounds selected from the group consisting of a sugars, or polyethylenimine, and or polyethylenimine derivatives,~~ and administering the complex by applying the complex without the use of a needle to the skin or mucosa surfaces of an animal, wherein said DNA comprises a nucleic acid sequence encoding at least one immunogenic protein operatively linked to a promoter, and whereby antigen presenting cells of said skin or mucosa are transfected.

24. (Amended) The method of Claim 23, wherein the complex comprises DNA and compound ~~is selected from the group consisting of glucose and or a polyethylenimine derivatives.~~

25. The method of Claim 24, wherein the polyethyleneimine derivative targets the mannose receptor found on the surface of antigen presenting cells.

26. The method of Claim 25, wherein the derivative is mannosylated polyetheylenimine.

27. (Cancelled).

28. The method of Claim 23, wherein the complex is electrostatically neutral.

29. (Cancelled)

30. (Amended) The method of Claim ~~28~~26, wherein the complex comprises a 5:1 ratio of mannosylated polyethylenimine derivative nitrogen per DNA phosphate.

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31. The method of Claim 23, wherein the gene delivery complex is ~~formulated in~~ added to a glucose solution.
32. The method of Claim 31, wherein the glucose solution is 5-10% glucose.
33. The method of Claim 32, wherein the glucose solution is 8% glucose.
34. (Cancelled)
35. The method of Claim 23, further comprising one or more steps selected from the group consisting of receptor stimulation, toxin activation, tissue injury and cell injury.
36. - 39 (Cancelled)
40. The method of Claim 23, wherein the DNA is a plasmid.
41. The method of Claim 23, wherein the cells are Langerhans cells.
42. The method of Claim ~~29~~ 44, wherein the complex comprises a 3:1 ratio of polyethylenimine nitrogen per DNA phosphate.
43. (Amended) The method of Claim 23 ~~25~~, wherein the derivative is a sugar-modified polyethylenimine.
44. (New) The method of Claim 23, wherein the complex comprises DNA and polyethylenimine.